FIG. 1A

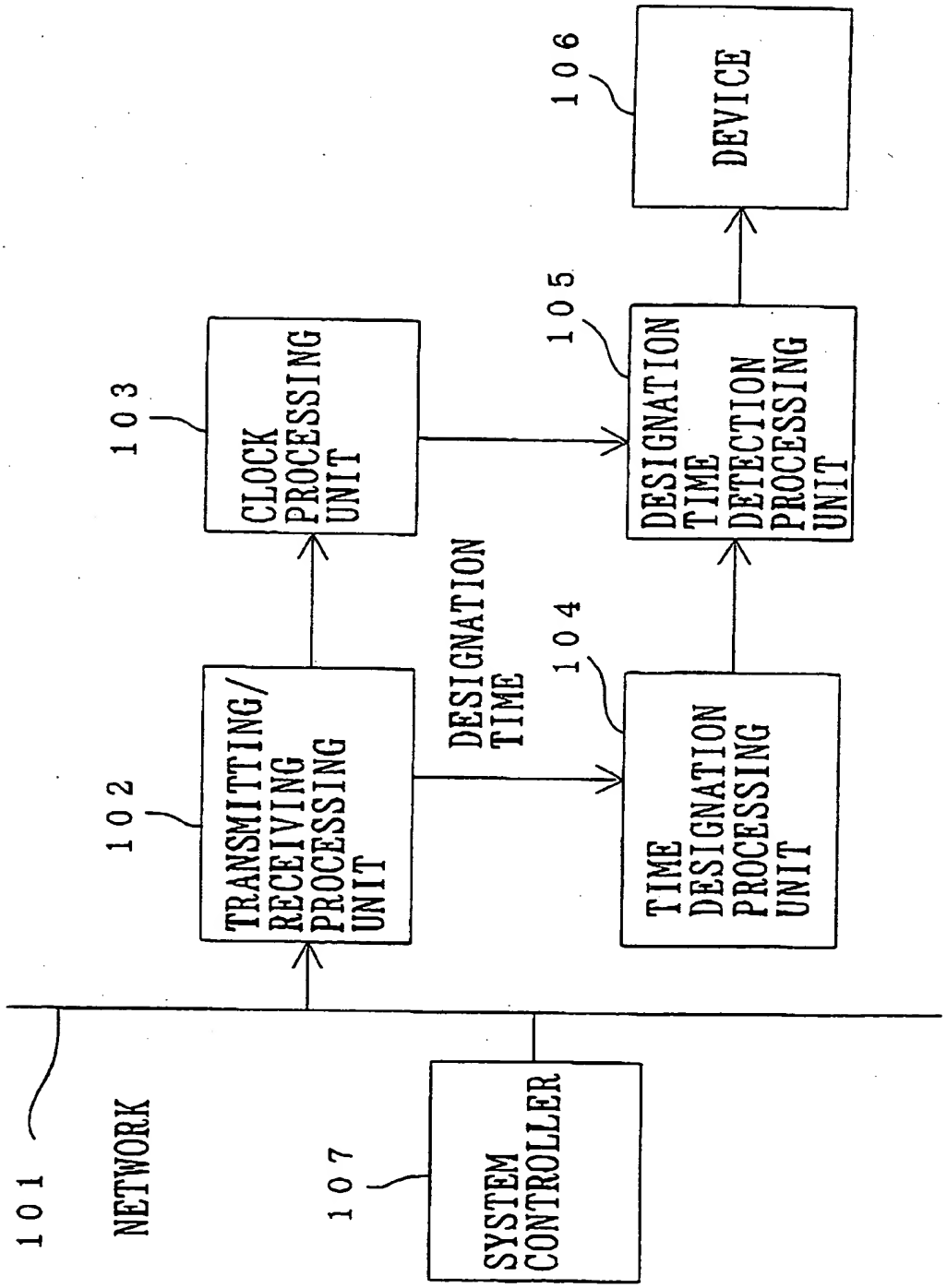
101
NETWORK
107
SYSTEM CONTROLLER
102
TRANSMITTING/ RECEIVING PROCESSING UNIT
103
CLOCK PROCESSING UNIT
104
TIME DESIGNATION PROCESSING UNIT
105
DESIGNATION TIME DETECTION PROCESSING UNIT
106
DEVICE
DESIGNATION TIME

FIG. 1B

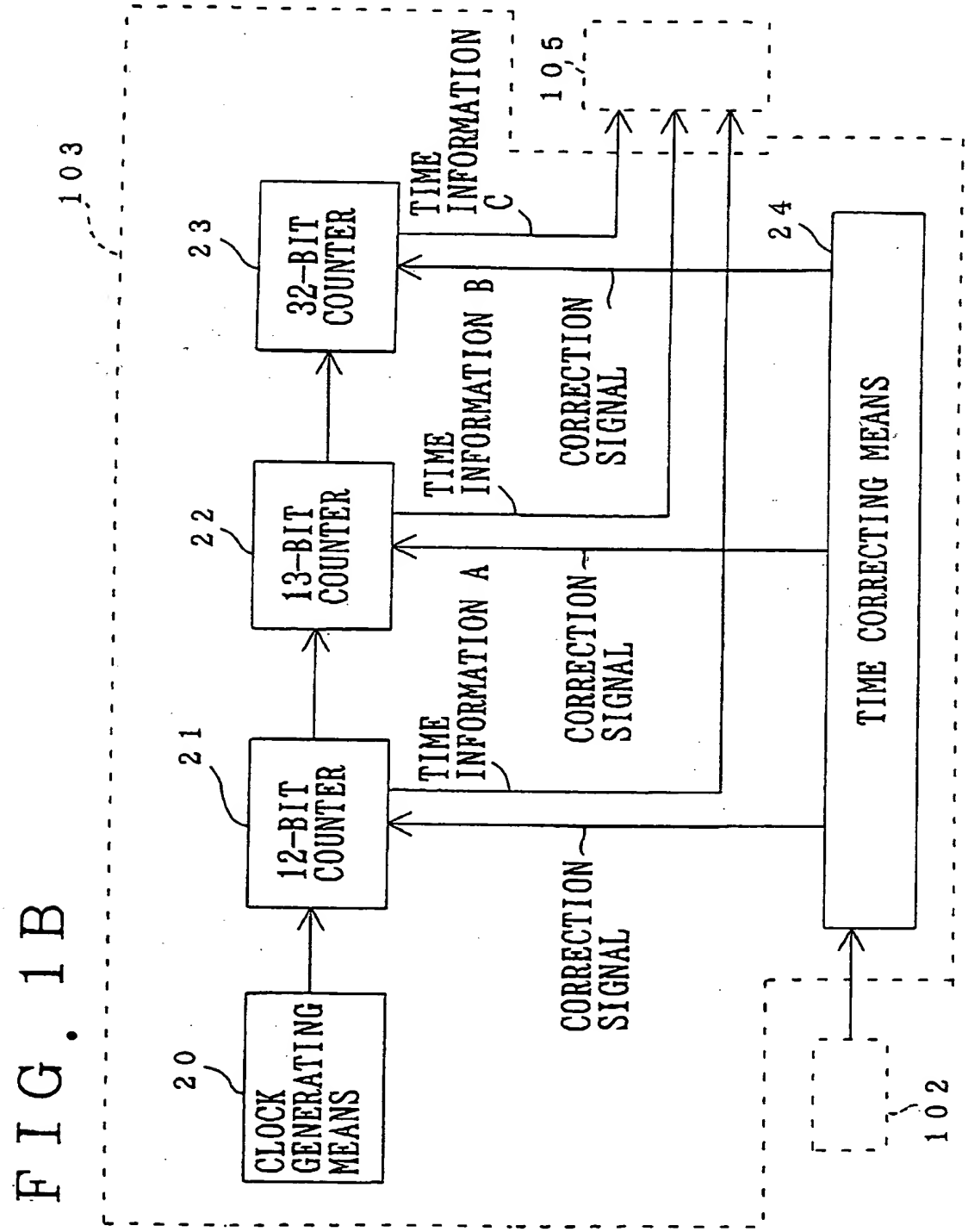
103
105
20
CLOCK GENERATING MEANS
21
12-BIT COUNTER
22
13-BIT COUNTER
23
32-BIT COUNTER
24
TIME CORRECTING MEANS
TIME INFORMATION A
TIME INFORMATION B
TIME INFORMATION C
CORRECTION SIGNAL
CORRECTION SIGNAL
CORRECTION SIGNAL
102

FIG. 1C

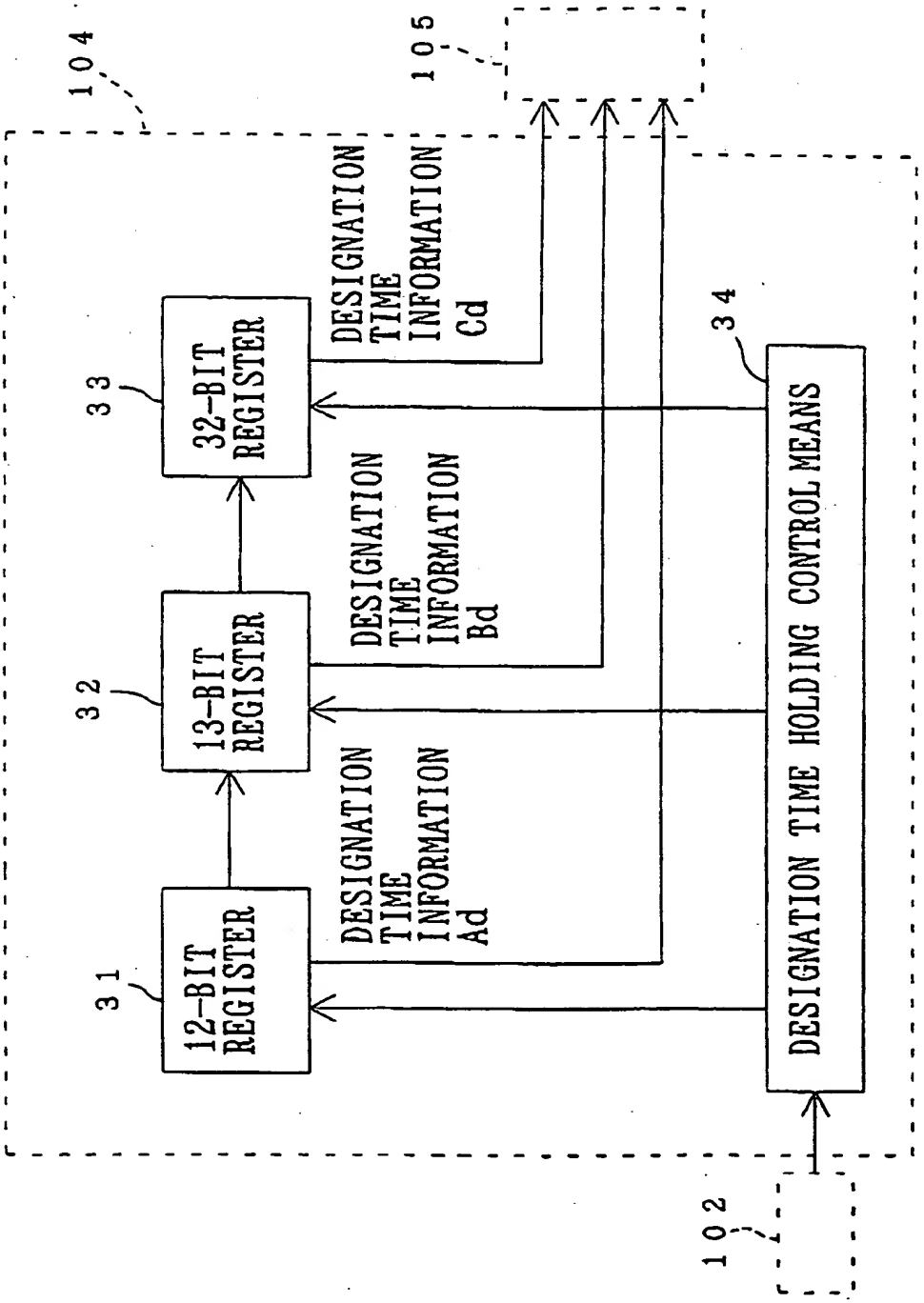
104
105
102
31
12-BIT REGISTER
32
13-BIT REGISTER
33
32-BIT REGISTER
34
DESIGNATION TIME INFORMATION Ad
DESIGNATION TIME INFORMATION Bd
DESIGNATION TIME INFORMATION Cd
DESIGNATION TIME HOLDING CONTROL MEANS

FIG. 1D

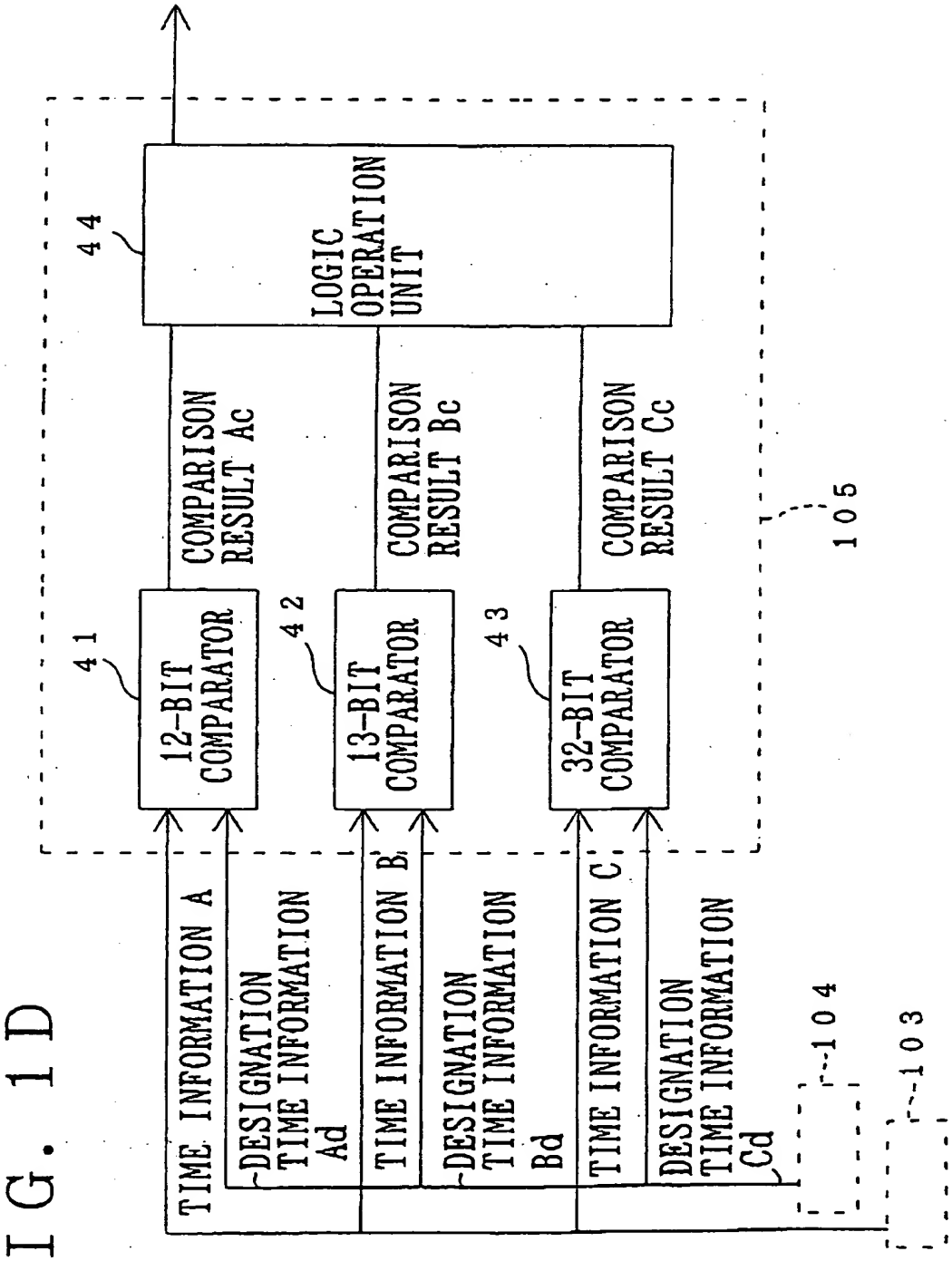
TIME INFORMATION A
DESIGNATION TIME INFORMATION Ad
TIME INFORMATION B
DESIGNATION TIME INFORMATION Bd
TIME INFORMATION C
DESIGNATION TIME INFORMATION Cd
12-BIT COMPARATOR
13-BIT COMPARATOR
32-BIT COMPARATOR
41
42
43
COMPARISON RESULT Ac
COMPARISON RESULT Bc
COMPARISON RESULT Cc
LOGIC OPERATION UNIT
44
105
104
103

FIG. 2

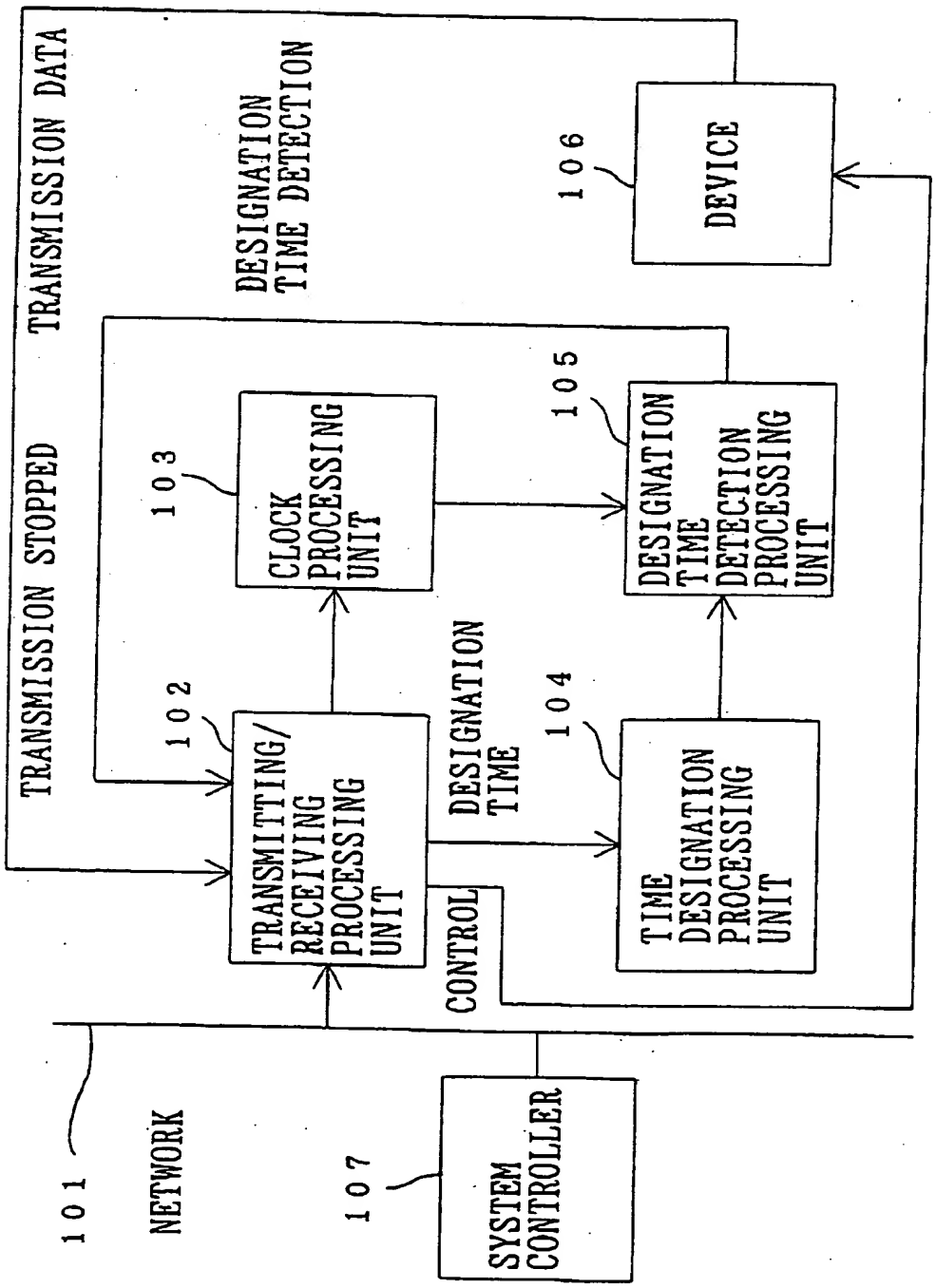
TRANSMISSION STOPPED
TRANSMISSION DATA
DESIGNATION TIME DETECTION
101
NETWORK
102
TRANSMITTING/ RECEIVING PROCESSING UNIT
103
CLOCK PROCESSING UNIT
104
DESIGNATION TIME
TIME DESIGNATION PROCESSING UNIT
105
DESIGNATION TIME DETECTION PROCESSING UNIT
106
DEVICE
107
SYSTEM CONTROLLER
CONTROL

FIG. 3

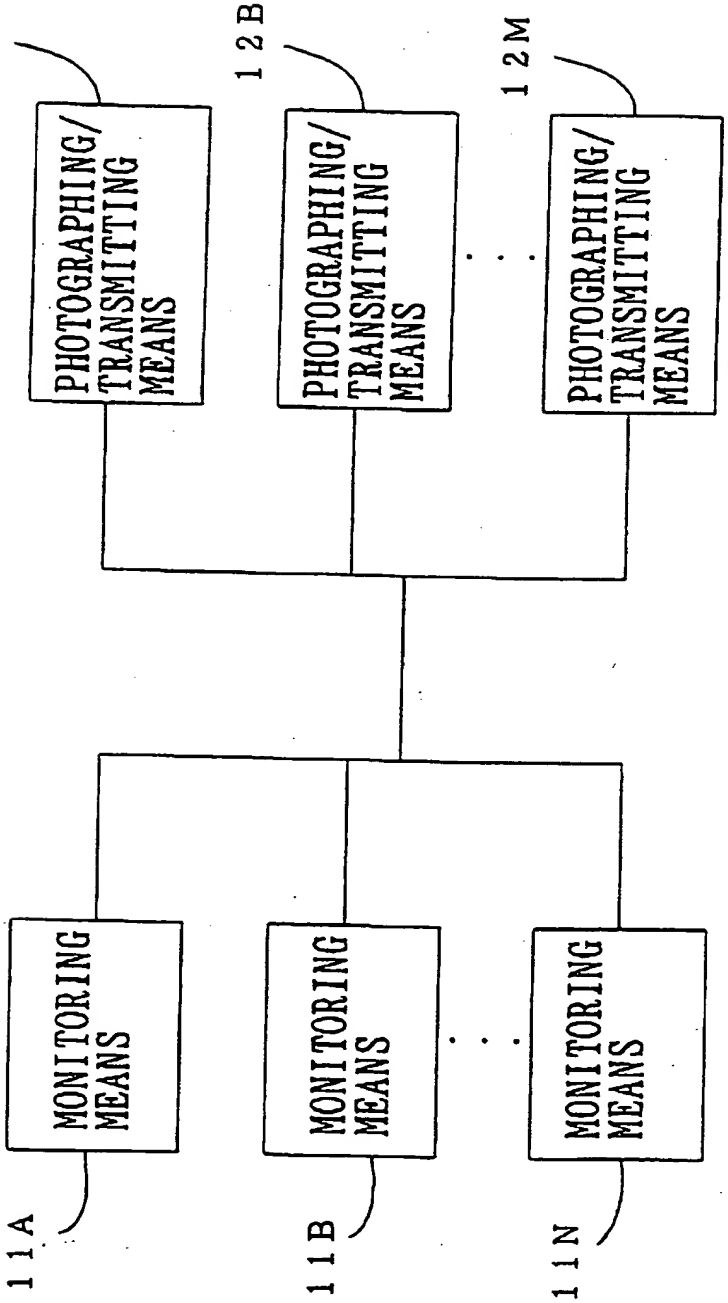
12A
12B
12M
PHOTOGRAPHING/ TRANSMITTING MEANS
PHOTOGRAPHING/ TRANSMITTING MEANS
PHOTOGRAPHING/ TRANSMITTING MEANS
MONITORING MEANS
MONITORING MEANS
MONITORING MEANS
11A
11B
11N

FIG. 4

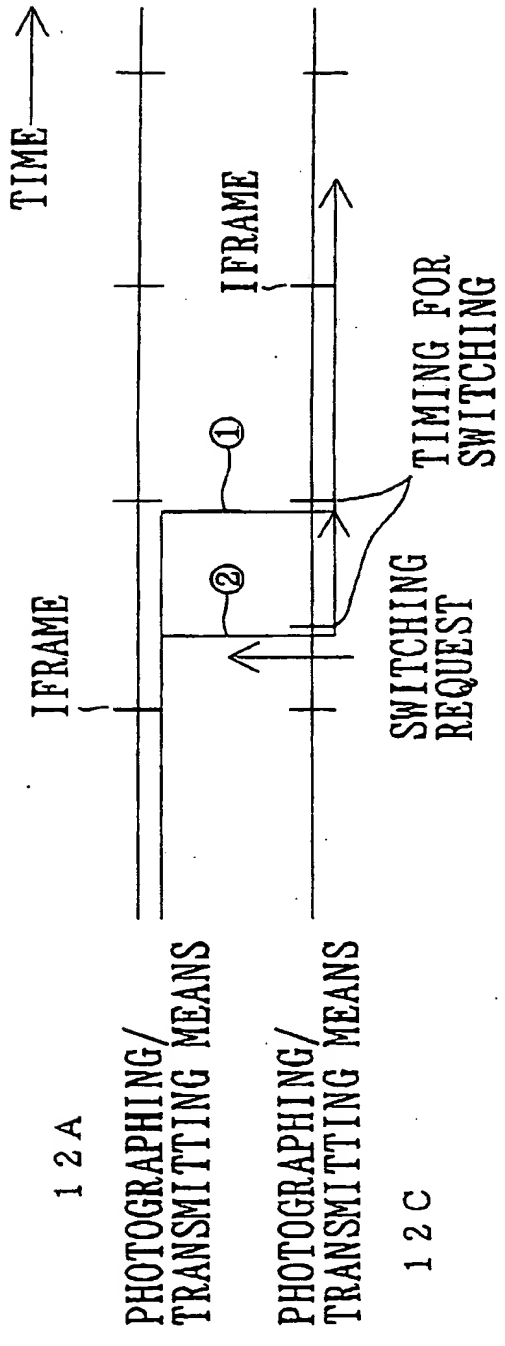
TIME
IFRAME
IFRAME
①
②
TIMING FOR SWITCHING
SWITCHING REQUEST
PHOTOGRAPHING/ TRANSMITTING MEANS
12A
PHOTOGRAPHING/ TRANSMITTING MEANS
12C

FIG. 5

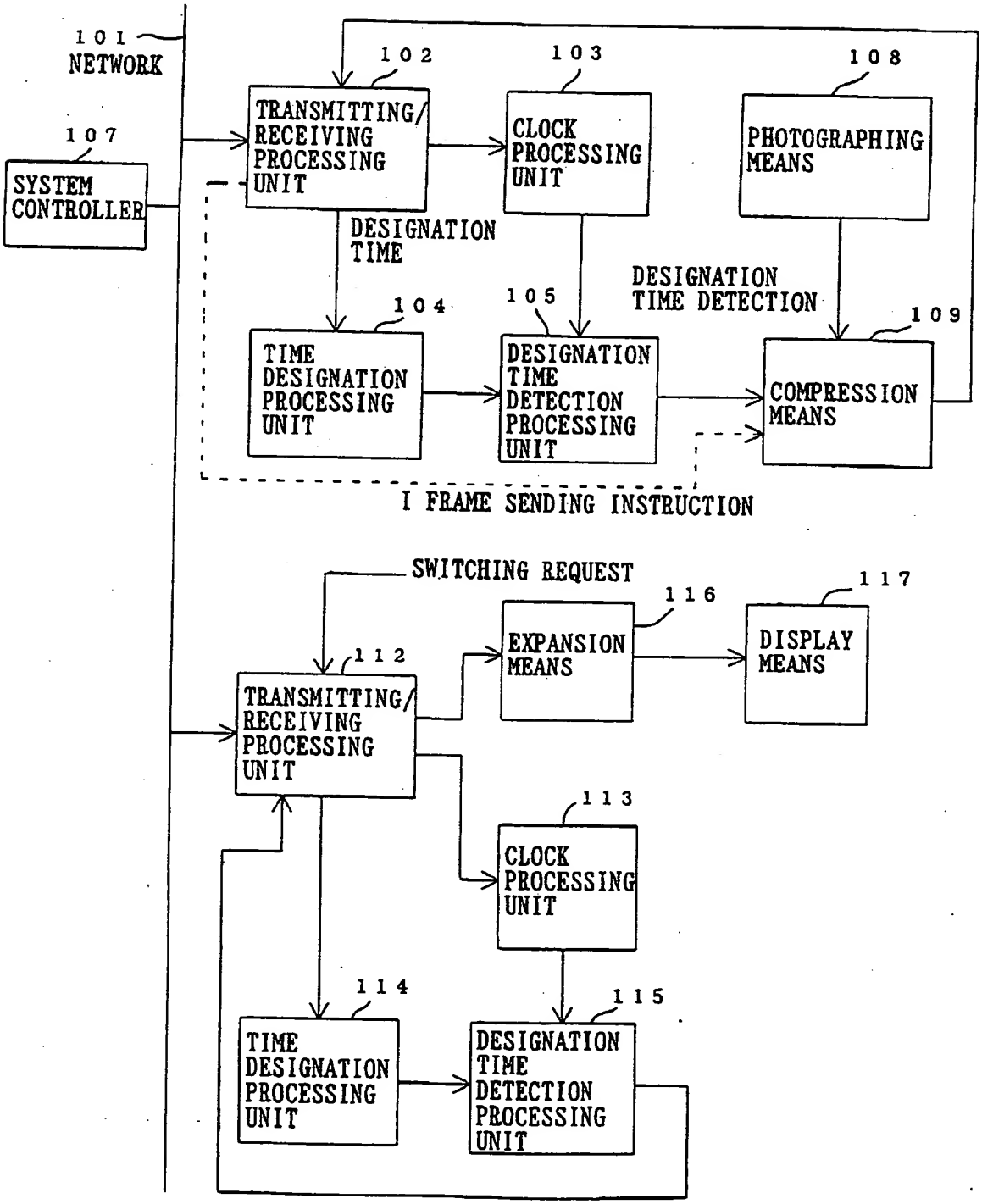

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FIG. 6

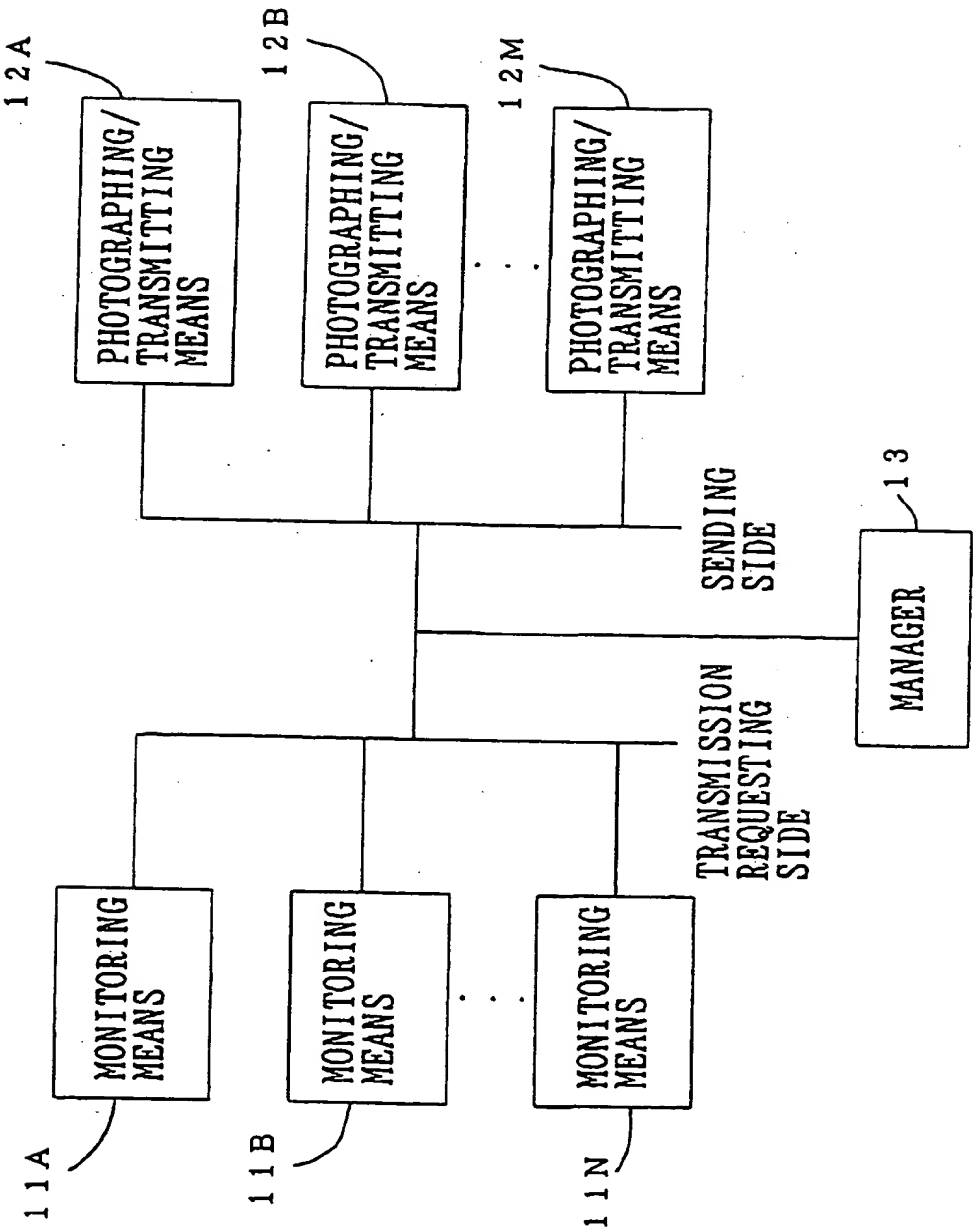
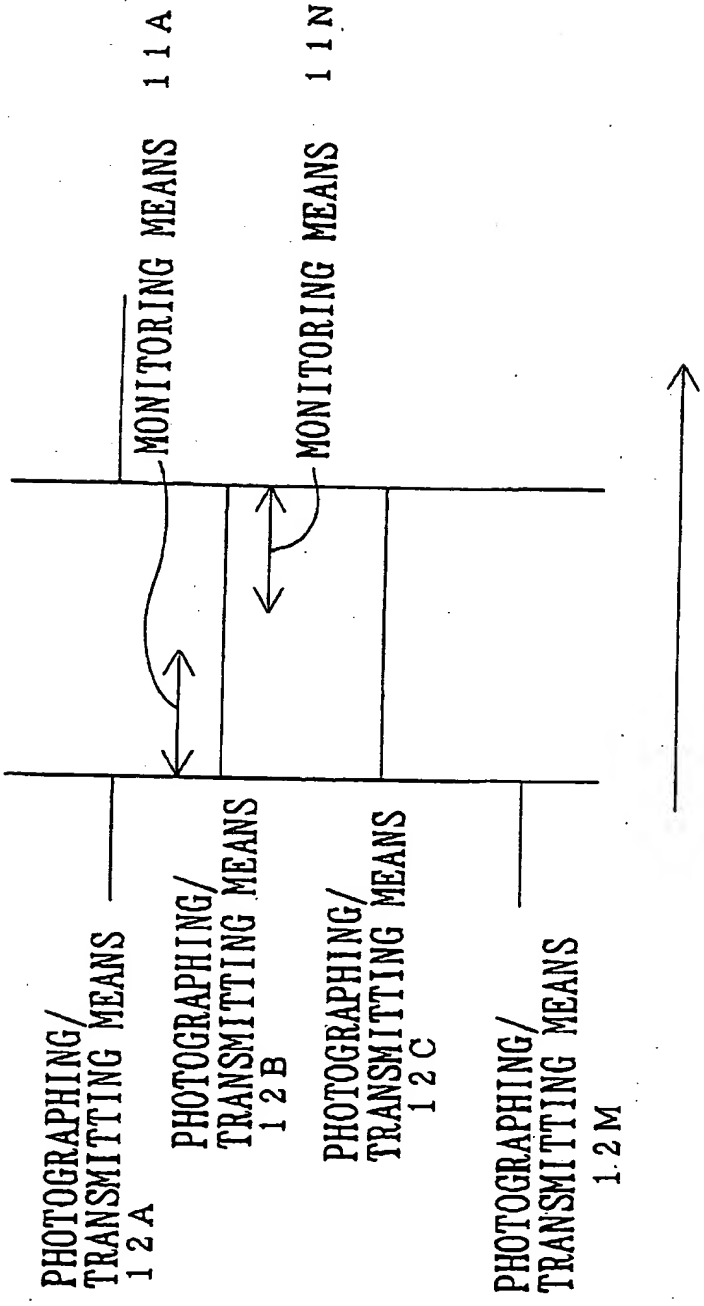

12A
12B
12M
PHOTOGRAPHING/ TRANSMITTING MEANS
PHOTOGRAPHING/ TRANSMITTING MEANS
PHOTOGRAPHING/ TRANSMITTING MEANS
SENDING SIDE
13
MANAGER
TRANSMISSION REQUESTING SIDE
MONITORING MEANS
MONITORING MEANS
MONITORING MEANS
11A
11B
11N

FIG. 7

EXAMPLE OF SCHEDULING



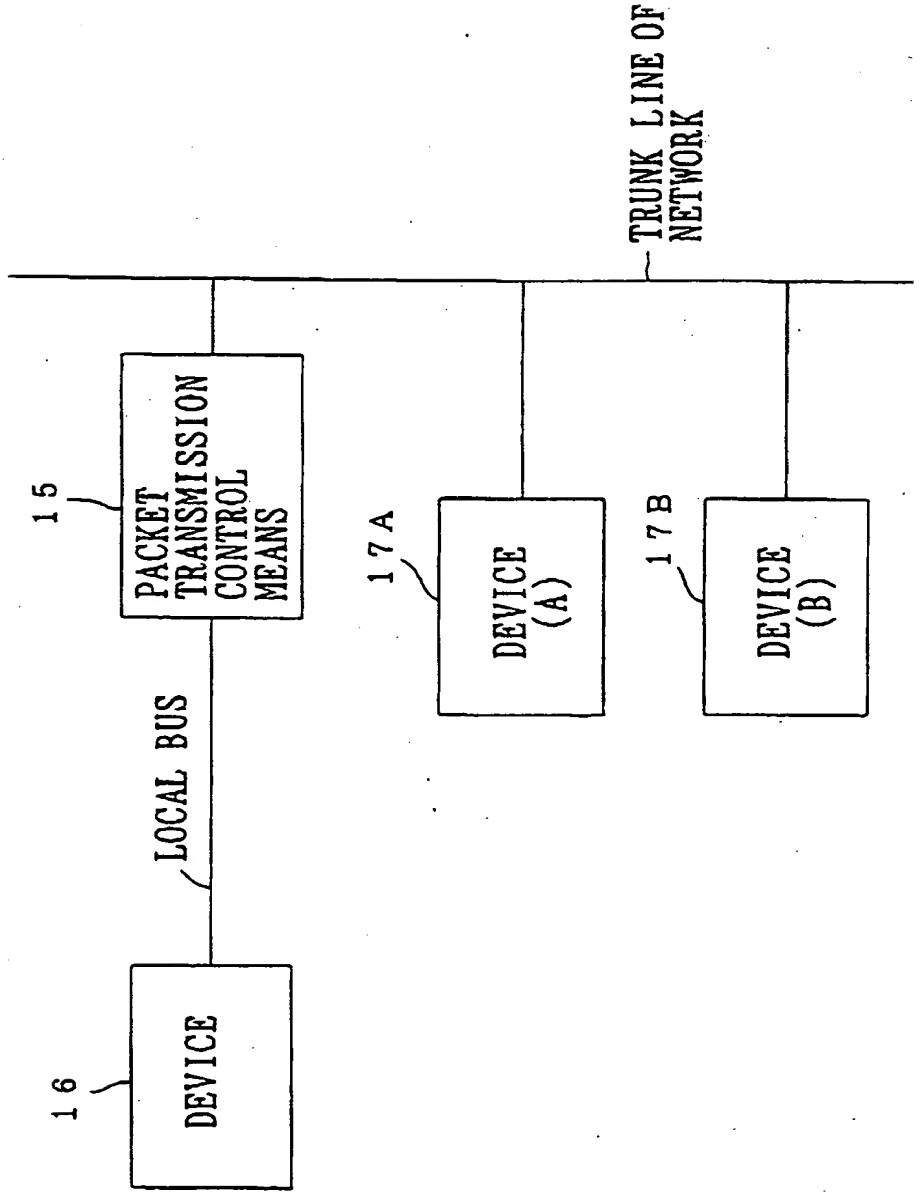

TRUNK LINE OF NETWORK
15
PACKET TRANSMISSION CONTROL MEANS
LOCAL BUS
16
DEVICE
17A
DEVICE (A)
17B
DEVICE (B)

FIG. 8

FIG. 9

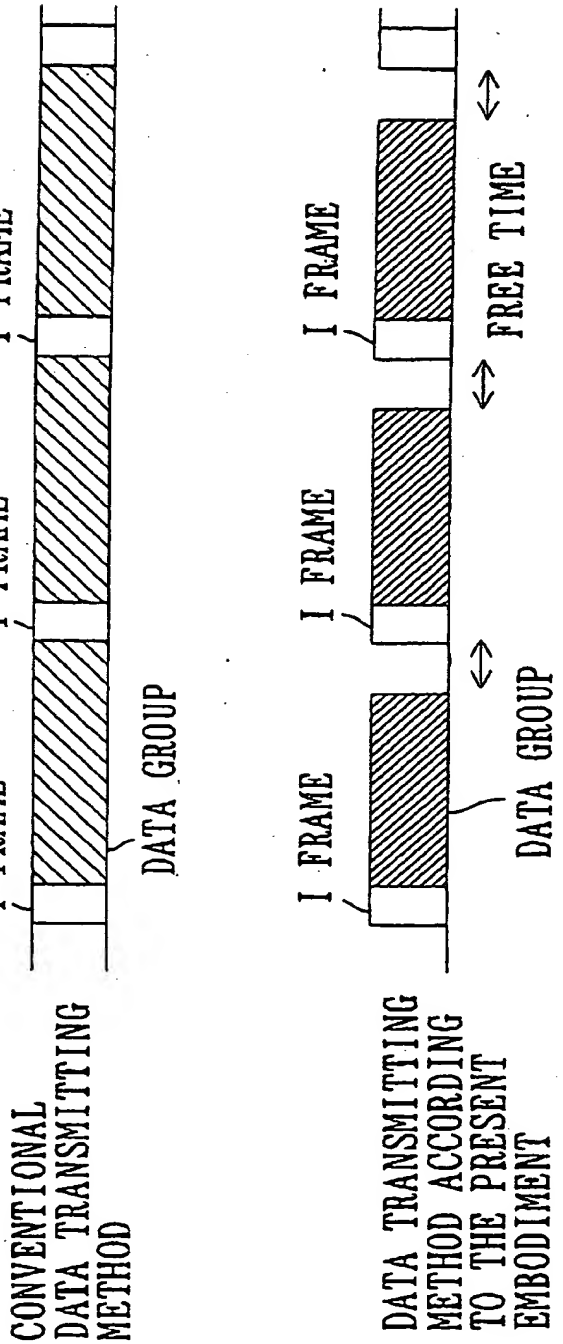
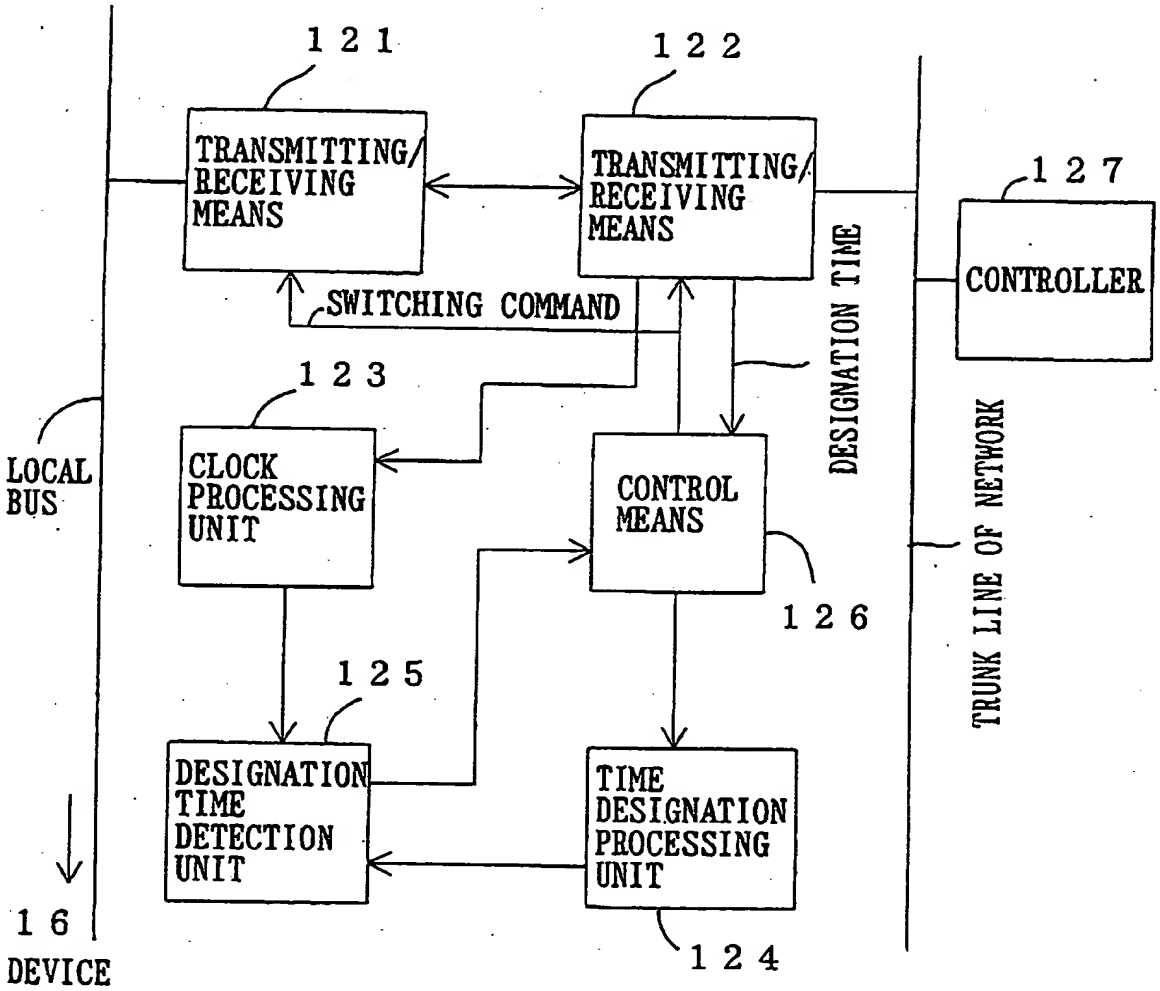

I FRAME
I FRAME
I FRAME
DATA GROUP
CONVENTIONAL DATA TRANSMITTING METHOD
I FRAME
I FRAME
I FRAME
FREE TIME
DATA GROUP
DATA TRANSMITTING METHOD ACCORDING TO THE PRESENT EMBODIMENT

FIG. 10



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